

## TITLE OF INVENTION

Title: Finger Ink (a writing implement)

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0001 Finger Ink is a writing device worn directly upon the finger. One continuous piece, the base is a hollowed cavity, within which a finger is placed and can be accommodated by adjusting an attached Velcro closure to either tighten or loosen fit. The base extends from approximately the knuckle (varying depending upon finger length) to the tip of the finger. At the tip of the finger or the lower end of the base, begins the barrel, which houses internally the cartridge; the ink, ballpoint and ball make up the components of said cartridge. The barrel, or lowest end of base, is completed by an attachable and detachable tip, from which the cartridge extends and writing is executed via a protruding point.

# CROSS-REFERENCE TO RELATED APPLICATIONS

6,550,068	Apr., 2003	Materon 2/160
6,000,058	Dec., 1999	Iselin 2/160
6,062,753	May., 2000	Hadtke 401/6
5,853,210	Dec., 1998	Robinson 294/25
4,526,547	Jul., 1985	Rusk 434/166
6,637,962	Oct., 2003	Roche 401/7
5,885,018	Mar., 1999	Sato 401/8

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR  
DEVELOPMENT NOT APPLICABLE

REFERENCE TO SEQUENCE LISTING, A TABLE, OR A COMPUTER PROGRAM  
LISTING COMPACT DISK APPENDIX NOT APPLICABLE

## BACKGROUND OF THE INVENTION

### 1. Field of the Invention

Finger Ink is relatable generally to writing instruments.

### 2. Related Art

0002 Conventionally straight, hand-held writing devices such as pens of common form and other marking devices such as markers or pencils are hard on the outside, similar in overall length and require use of more than one finger for writing. In addition they require a gripping, usually between index finger and thumb, and involve the middle finger as a support to absorb pressure during writing. These conventional styles do not allow the fingers to work or be used independently from one another; and gripping can become troublesome or bothersome, especially after continuous use.

0003 Alternatives and improvements of these more traditional style-writing implements have been found among prior art and patents. U.S. Patent Numbers 6550068, 6000058, 6062753, 5853210, 4526547, 6637962, and 5885018 are also writing implements however these devices are not free of gripping or other finger dependency, and are not worn upon or fully encompassing of the fingertip.

0004 These patents are related very loosely within the general field of writing implements, but differ in more specific terms of use and construction. For example: patents 6000058, 6062753, 6637962, and 5885018 are among those that are not functional unless utilizing or aiding in grip; patents 4526547 and 5853210 are much more glove-like and cover or extend to multiple fingers or the whole hand. Patent number 6550068 is reliant upon all of the above, it is glove-like utilizing the whole of the hand, requires or aids in gripping, and in addition it is constructed of multiple prostheses. None of these patents are similar enough to falter the distinction of Finger Ink.

## BRIEF SUMMARY OF THE INVENTION

0005 The objects of the present writing implement are to fit directly upon finger, eliminate gripping, adjust, and to have key components that form a unified object.

0006 The present writing implement is comprised of an elongated base, or body, with a writing point at the lowest end, and an open, upper end for encasing the finger approximately from the knuckle past the tip. Similar in function to a traditional writing implement, Finger Ink differs in size, shape, and overall in the ability to perform without the need of gripping or hand held strength. Worn individually upon a finger by insertion through the open end of the base, the writing implement fits approximately up to the knuckle, and can be adjusted or secured by use of a Velcro strap which extends laterally across said base. The barrel, or lower end of the base, begins past the fingertip and is the structure that contains the cartridge. Internally, the cartridge is a tube, which is inclusive of the ball, ballpoint and is filled with ink or other writing material. This cartridge is shared within the chambers of the barrel and the final component of the writing implement, which is the tip. The tip, like the barrel, has tread that allows the two to connect and comes to a point from which the cartridges ball and ballpoint protrude, and writing or drawing is accomplished. It begins and ends beyond the fingertip. The tip, when connected, is the lowest unifying end of this writing device.

### BRIEF DESCRIPTION OF THE SEVERAL VEIWS OF THE DRAWING

Figure 1 is a side profile of the device as fitted upon a finger.

**Includes components**

- 1A: Base
- 1B: Barrel
- 1C: Tip

Figure 2 is a top view of the device as fitted upon a finger.

Includes components

- 1A: Base
- 1B: Barrel
- 1C: Tip

Figure 3 is a profile of the apparatus with a Velcro closure and the separated tip-barrel to illustrate detachability/attachability.

Includes components

1A: Base- 2A: Velcro adjustable strap closed  
- 3A: Opening in base for insertion

1B: Barrel- 2B: Internal tread at end closest to tip

1C: Tip- 2C: External tread for attachment / detachment

Figure 4 is a top view of the device with Velcro closure and separated tip-barrel with internal cartridge exposed.

Includes components

- 1A: Base- 3A: Opening in base for insertion
  - 4A: Open Velcro strap
  - 5A: Velcro stick track to secure closure
- 1B: Barrel- placed over cartridge (internal) for connection
  - 2B: Internal tread at end closest to tip
- 1C: Tip- placed over cartridge (internal) for connection
  - 2C: External tread for attachment / detachment
- 1D: Cartridge- 2D: Ballpoint
  - 3D: Ball

Drawings are not exact in scale to size of actual writing apparatus or human finger.

## DETAILED DESCRIPTION OF THE INVENTION

0007 Finger Ink is a writing and/or drawing device worn as individual units upon one's finger. A finger is inserted into the base through an open end, a hollowed finger base, made up of trilaminate material, most likely a two-sided Nylon-Lycra with a middle layer of rubber. Much like the material of a "wetsuit", this is a flexible yet durable combination that will provide support for use while remaining comfortable and breathable. A strap for closure is stitched to external base material, made up of a Velcro strip which extends from one side across to a receiving Velcro stick track, allowing for a laterally adjustable connection which provides a tighter or looser fit as desired. The overall sizing is compact and may range in diameter based upon the closure, but length remains fairly constant, approximately 5mm but actual manufacture may change this measurement. Variation due mostly to individual finger sizes, the writing implement's base is generally designed to fit up to the knuckle but may in some cases extend just below or above. At the lower and opposite end of the base, the material is closed off in a rounded or natural fingertip shape to protect and separate from contact with the barrel.

0008 The barrel houses or contains the cartridge, which is where ink, ballpoint and ball are put together for actual writing or drawing function. The barrel is directly connected to the end of the base and is designed to start where the finger tip would end. These pieces cannot be separated, as they are one continuous writing implement that serves individually identifiable purposes to the user and in carrying out the overall function. The barrel is either a plastic or metal material as found on most common ballpoint pens and other writing implements. The barrel is cylindrical in shape, as is the base when worn around finger, and it is approximately 1mm each in length and diameter. Color of the barrel may vary to match aesthetically with the base and illustrate the continuity of these components. Internally, the barrel has treading (in a clockwise or counterclockwise direction) at its end furthest from the base, which allows for the attachable, detachable and re-attachable final component.

## DETAILED DESCRIPTION OF THE INVENTION- CONTINUED

0009 The barrel is also the housing of a cartridge: an internal, plastic, fluid or ink-filled tube with ballpoint and ball at its end. This cartridge varies from standard pens or marking devices to fit the Finger Ink's compact size. It is approximately 2mm in length and approximately 0.7 to 0.9mm in diameter at its widest end (to consume almost the entire cavity of the barrel) and ranges from approximately 0.1 to 0.5 to 0.7mm in diameter at its most narrowed end depending on the thickness or fineness of line desired, however actual measurements may vary with manufacture. The cartridge, which is the actual source of the fluid or ink, ball point and the ball (internal factors which are necessary to the flow and function of fluid or ink in writing and/or drawing) takes form as a cylinder narrowing into a point to fit consistently within the barrel of this device. The rest of this cartridge's function follows the overall standard patterns of ballpoint pens with a rotating brass or tungsten carbide ball contained at the end of this plastic tube (or cartridge) in a socket.

0010 The final component in completion of the writing apparatus is the tip. Made of the same plastic or metal as the barrel, the tip of the Finger Ink is the protective shell that completes the shape and continuity of the writing implement, and from which the cartridge tip protrudes for writing or drawing to take place. The tip, which is approximately 2mm in length, has a treaded end (clockwise or counterclockwise opposite of that inside the barrel) that is meant to attach or detach from the internal treading of the barrel, and receives the ballpoint-ball end of the cartridge within. This treaded end is cylindrical but narrows into a pointed shape to its furthest end from the barrel. At its most pointed, narrow end the tip ranges in measurement of diameter and has a slightly smaller measurable hole from which the cartridge point extends out. This constitutes the final component of the Finger Ink forming a single, unified writing apparatus and is the end from which the actual writing or drawing is executed on to paper or other surface.